

Appl. No. 10/783,533

Amdt. Dated September 29, 2004

Reply to Office Action of September 27, 2004

**ATTORNEY DOCKET NO. 7083**

**Amendments to the Description**

Please replace paragraph [002] with the following amended paragraph:

[002] Hexanitrostilbene, an organic nitroaromatic abbreviated as HNS and also called hexanitrodiphenylethylene, is a heat resistant explosive that is commonly used in deep well charges found in the oil field or in applications requiring the explosive to withstand significant temperatures before initiation. The chemical formula is  $C_{14}H_6(NO_2)_6$ ,  $C_{14}H_6N_6O_{12}$ . HNS is made in type I and type II and grades A and B. The difference between type I and type II is primarily the particle size. The particle size of type I is 1 - 5 microns. The particle size of type II is 100 - 300 microns. HNS has a uniquely small critical diameter of 0.020 inch. It is relatively insensitive to heat, spark, impact, and friction, yet it finds wide use as a heat resistant booster charge for military applications.